



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 2

290 BROADWAY

NEW YORK, NY 10007-1866

FEB 23 2016

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Article Number: 7015 3010 0001 6837 6978

Tom Rhoads, P.E., Commissioner
Onondaga County Department of Water Environment Protection
650 Hiawatha Boulevard West
Syracuse, NY 12304

RE: Request for Information (RFI) Pursuant to Section 308 of the Clean Water Act
Compliance Evaluation Inspection (CEI) Report
Meadowbrook-Limestone Wastewater Treatment Plant (NY0027723)
Docket No. CWA-IR-16-011

Dear Mr. Rhoads:

On September 22, 2015, the United States Environmental Protection Agency (EPA) conducted a Compliance Evaluation Inspection (CEI) at the Meadowbrook-Limestone (MBLS) Wastewater Treatment Plant (WWTP) located at or near 7530 Manlius Center Road in Kirkville, New York (the "Facility"). The Facility is owned and operated by Onondaga County (the "County"). The purpose of the CEI was to evaluate the Facility's compliance with the New York State Department of Environmental Conservation (NYSDEC) State Pollution Discharge Elimination System (SPDES) discharge permit, NY0027723 (the Permit").

The EPA is charged with the protection of human health and the environment under the Clean Water Act (CWA or Act), 33 U.S.C. §§ 1251 *et seq.* Section 308(a) of the CWA, 33 U.S.C. § 1318(a), provides that whenever it is necessary to carry out the objectives of the CWA, including determining whether or not a person/agency is in violation of Section 301 of the CWA, 33 U.S.C. § 1311, the EPA shall require the submission of any information reasonably necessary to make such a determination. Under the authority of Section 308 of the CWA, EPA may require the submission of information necessary to assess the compliance status of any facility and its related appurtenances.

You are hereby required, pursuant to Section 308(a) of the CWA, 33 U.S.C. § 1318(a), to submit to the EPA and NYSDEC the following information regarding the subject Facility no later than **thirty (30) calendar days** of receipt of this RFI:

1. A formal, written response describing how the County has or plans to address the Potential Noncompliance Items and Areas of Concern on pages 5 and 6 of the enclosed CEI Report; and
2. An implementation schedule for any proposed additional activities or modifications to the 2002 Sewer System Evaluation Survey (SSES), in accordance with Part VII of the Permit.

Additional detail on each of the Potential Noncompliance Items and Areas of Concern is included throughout the Findings and Observations section of the CEI Report.

All information required to be submitted by this RFI shall be sent by certified mail or its equivalent to the following address:

Douglas McKenna, Chief
Water Compliance Branch
Division of Enforcement and Compliance Assistance
United States Environmental Protection Agency
290 Broadway, 20th Floor
New York, NY 10007

and

Joseph DiMura, P.E., Director
Bureau of Water Compliance Programs
Division of Water, NYSDEC
625 Broadway
Albany, NY 12233

and

Timothy DiGiulio, P.E., Regional Water Engineer
NYSDEC, Region 7
615 Erie Boulevard West
Syracuse, NY 13204


Any documents to be submitted by you must be sent by certified mail or its equivalent and shall be signed by an authorized representative of the respective entity (see 40 C.F.R. § 122.22), and shall include the following certification:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitted false information, including the possibility of fine and imprisonment for knowing violations.”

Failure to provide the required information may subject you to civil/criminal penalties pursuant to Section 309 of the CWA. Failure to comply with the RFI shall also subject you to ineligibility for participation in work associated with Federal contracts, grants or loans.

If you have any questions regarding this Request for Information or the enclosed CEI Report, please feel free to contact Justine Modigliani, P.E., Chief, Compliance Section, at (212) 637-2468, or Ms. Katherine Mann of my staff at (212) 637-4226.

Sincerely,

A handwritten signature in blue ink, appearing to read 'D. McKenna', with a long horizontal flourish extending to the right.

Douglas McKenna, Chief
Water Compliance Branch

Enclosure

cc: Joseph DiMura, P.E, Director, Bureau of Water Compliance Programs, NYSDEC
w/enclosure
Timothy DiGiulio, P.E., Regional Water Engineer, NYSDEC Region 7, w/enclosure
Valarie Ellis, P.E., Environmental Engineer II, NYSDEC Region 7, w/enclosure
(electronic)
Michael Bumbolo, Head Operator, OCDWEP w/enclosure
Dan Jean, Operations Superintendent, OCDWEP w/enclosure

Water Compliance Inspection Report

Section A: National Data System Coding (i.e., PCS)

[illegible]

Section B: Facility Data

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number) Meadowbrook-Limestone Wastewater Treatment Plant: 7530 Manlius Center Road, Kirkville, NY 13082	Entry Time/Date 10:00AM/9-22-15	Permit Effective Date 7/1/2014
	Exit Time/Date 3:30PM/9-22-15	Permit Expiration Date 6/30/2019
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) Al DeNero, Senior Wastewater Treatment Plant Operator; Dan Jean, Operations Superintendent, 315-435-2260 x309	Other Facility Data (e.g., SIC NAICS, and other descriptive information) SIC Code 4952 Sewerage Systems	
Name, Address of Responsible Official/Title/Phone and Fax Number Mr. Tom Rhoads, P.E., Commissioner Onondaga County Department of Water Environmental Protection, 650 Hiawatha Blvd. West Syracuse, NY 13204-1194	Contacted <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

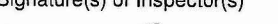

Section C: Areas Evaluated During Inspection (Check only those areas evaluated)

<input checked="" type="checkbox"/>	Permit	<input type="checkbox"/>	Self-Monitoring Program	<input type="checkbox"/>	Pretreatment	<input type="checkbox"/>	MS4
<input checked="" type="checkbox"/>	Records/Reports	<input type="checkbox"/>	Compliance Schedules	<input type="checkbox"/>	Pollution Prevention		
<input checked="" type="checkbox"/>	Facility Site Review	<input type="checkbox"/>	Laboratory	<input checked="" type="checkbox"/>	Storm Water		
<input checked="" type="checkbox"/>	Effluent/Receiving Waters	<input checked="" type="checkbox"/>	Operations & Maintenance	<input type="checkbox"/>	Combined Sewer Overflow		
<input type="checkbox"/>	Flow Measurement	<input type="checkbox"/>	Sludge Handling/Disposal	<input type="checkbox"/>	Sanitary Sewer Overflow		

Section D: Summary of Findings/Comments

(Attach additional sheets of narrative and checklists, including Single Event Violation codes, as necessary)

SEV Codes	SEV Description
E 0 0 1 6	Reporting Violations - Failure to submit required report (non-DBP non-pretreatment) ¹
A 0 0 1 2	Effluent Violations - Numeric effluent violation

Name(s) and Signature(s) of Inspector(s) 	Agency/Office/Phone and Fax Numbers	Date 2/22/16
Katherine Mann, Physical Scientist	R2/DECA/WCB/212-637-4226, 212-637-3953	
		2/22/16
Signature of Management Q A Reviewer Justine Modigliani, P.E., Chief, Compliance Section	Agency/Office/Phone and Fax Numbers R2/DECA/WCB/212-637-4268, 212-637-3953	Date

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 2, DECA-WCB
20th Floor, 290 Broadway, NY, NY 10007

COMPLIANCE EVALUATION INSPECTION REPORT

Compliance Evaluation Inspection: Meadowbrook-Limestone Wastewater Treatment Plant	
Inspection Date: September 22, 2015	Inspection Time: 10:00 AM – 3:30 PM
Weather Conditions: Sunny, ~75°F	
EPA Inspector: Katherine Mann, Physical Scientist, USEPA Region 2, DECA, Water Compliance Branch, (212) 637-4226	
On-Site Representatives: Al DeNero, Senior Wastewater Treatment Plant Operator; Dan Jean, Operations Superintendent	
Site Information: 7530 Manlius Center Road, Kirkville, NY 13082; SPDES No. NY0027723	
Owner/Operator/Permittee: Onondaga County, 650 Hiawatha Boulevard West, Syracuse, NY 12304	
SIC Code: 4952	

INTRODUCTION:

On September 22, 2015 the United States Environmental Protection Agency (EPA) conducted an unannounced Compliance Evaluation Inspection (CEI) at the Meadowbrook-Limestone (MBLS) Wastewater Treatment Plant (WWTP) located at 7530 Manlius Center Road in Kirkville, NY (the "Facility"). The Facility is owned and operated by Onondaga County (the "County"). Ms. Katherine Mann of the Division of Enforcement and Compliance Assistance (DECA) at EPA Region 2 conducted the CEI and presented credentials to Mr. Al DeNero, Senior Wastewater Treatment Plant Operator upon arrival. Mr. Michael Bumbolo, Head Operator, was not present on the day of the CEI. Mr. Dan Jean, Operations Superintendent for the Onondaga County Department of Water Environment Protection, was available for the second half of the CEI. Mr. Nick Capozza, Sewer Maintenance Engineer, was interviewed via phone call subsequent to the CEI.

The purpose of the CEI was to evaluate the Facility's compliance with its New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) Permit, NY0027723 (the "Permit"). The Permit authorizes the Facility to discharge effluent from monitored outfall 001 to Limestone Creek. The Permit effective at the time of the CEI went into effect on July 1, 2014 and will expire on June 30, 2019.

During the CEI, the EPA inspector interviewed Facility representatives, reviewed records, and performed a Facility walk-through with Mr. DeNero and Mr. Jean. Additional records and documentation requested at the time of the CEI were submitted to EPA subsequent to the CEI and are listed in Appendix A of this report.

FINDINGS & OBSERVATIONS:

The MBLS WWTP receives flow from significant portions of the Town of Dewitt, the Town of Manlius (including the Villages Fayetteville and Manlius), and small portions of the Town of Pompey and the City of Syracuse. Facility representatives stated that they did not know the existing nor projected population sizes serviced by the MBLS WWTP. Based on information gathered by EPA during 2014 inspections of satellite sanitary sewer collection systems tributary to the Facility, EPA estimated that the current contributing population size is roughly 40,000. The MBLS WWTP has a design flow of 6.5 MGD.

During heavy but brief rain events, flow is diverted to an emergency storage tank with approximately 1 MG capacity. After high flow subsides, wastewater in the storage tank is diverted back to the headworks of the WWTP. For longer duration storms, the Facility's procedure is to shut off aeration so that solids settle and increase chlorination (when seasonal disinfection is required). The 1 MG emergency storage tank is utilized as flow rates begin to abate, to divert flow entering the aeration system before turning the aeration blowers back on. Facility representatives estimated that the WWTP shuts down the aeration tanks due to storm events approximately 10 times per year.

At the time of the CEI, repairs were ongoing on the following:

- One (1) of two (2) grit pumps
- One (1) of four (4) aeration blowers
- One (1) of two (2) effluent water pumps

The WWTP had two (2) new Return Activated Sludge (RAS) pumps at the time of the CEI. In addition, Facility representatives indicated that the inner structures of the clarifiers (2), including the skimmer arms, were scheduled to be replaced in 2017. Weir-Wolfs were installed in the clarifiers in June 2014. Other impending upgrades at the Facility include switching from chlorine to UV disinfection in order to meet the final permit limit for Total Residual Chlorine (0.02 mg/l), which goes into effect 5/18/2018. At the time of the CEI, there were no plans in place to increase capacity at the WWTP. It was noted that the clarifiers, each with a surface area 75' in diameter and a side water depth of 10.5', are shallow and do not meet the 10-state standards (minimum side water depth of 12' for clarifiers with surface areas in excess of 70' diameter). During the CEI, facility representatives indicated that they can clarify 12-14 MGD effectively, but beyond that they start experiencing problems.

During the CEI, an odorless, foamy, opaque white discharge was observed at outfall 001 that dissipated approximately 30' downstream of the outfall. Upon discovery of the condition at the outfall, the Facility sampled the discharge for organics and surfactants. Sample results were provided to EPA on October 12, 2015. Detectable results were found for Bromodichloromethane, Bromomethane, Carbon disulfide, Chloroform, Dibromochloromethane, Toluene and surfactants (methylene blue active substances (MBAS)), generally in very low concentrations, and are listed in Appendix B of this report. Detectable levels of Total Trihalomethanes (TTHMs) may be indicative of the presence of disinfection byproducts in the discharge. Although the Facility did not experience an exceedance of the Total Residual Chlorine

limit in its Permit in the month of September 2015, it did experience Total Residual Chlorine levels at the current 2.0 mg/l (daily max) limit.

EPA reviewed records maintained at the WWTP including but not limited to Discharge Monitoring Reports (DMRs) and monthly wastewater facility operation reports prepared by the head operators (Mr. Bumbolo, preceded by Mr. John Harmon) and submitted to the NYSDEC. Based on review of DMRs from January 2012 to the date of the CEI, the following exceedances of Permit limits were noted:

<u>Monitoring Period</u>	<u>Parameter(s) Exceeded</u>
January 2012	Flow
June 2013	Flow
July 2013	Flow
March 2014	Flow, Carbonaceous Oxygen Demand (CBOD ₅) (% removal), Ultimate Oxygen Demand (UOD), Total Suspended Solids (TSS) (7-day average loading), Suspended Solids (percent removal), Ammonia (as NH ₃)
April 2014	Flow, CBOD ₅ (7-day average loading), CBOD ₅ (percent removal), UOD, TSS (30-day average, 7-day average – both for concentration and loading), Suspended Solids (percent removal), Total Phosphorus, Total Recoverable Iron
May 2014	Fecal Coliform (7-day geometric mean)
December 2014	Flow
April 2015	Flow
June 2015	Settleable Solids
July 2015	UOD, Suspended Solids (percent removal), CBOD ₅ (percent removal)

In general, EPA found records maintained at the Facility to be thoroughly prepared and very well organized. The monthly reports prepared by the chief operators identify daily observations at the WWTP, including operating problems and equipment failures. For months in which the WWTP experienced one or more violation, a report of noncompliance and cover letter explaining the cause of the violation(s) were submitted to the NYSDEC with the DMRs in accordance with the Permit. All of the violations identified in the table above were attributed to excessive wet-weather flow. Monthly reports indicated that the instantaneous maximum influent flow at the WWTP exceeded 22 MGD on 14 days between January 2014 and the date of the CEI.

Quarterly Flow Management Reports, summarizing work performed in the MBLs service area to remove Infiltration and Inflow (I/I), were reviewed for 2nd quarter 2014 – 1st quarter 2015. As previously mentioned, during the week following the CEI, the EPA inspector interviewed Mr. Capozza, who provided additional information on operation and maintenance in the MBLs service area. Mr. Capozza provided copies of the existing intermunicipal agreements (IMAs) between the County and contributing municipalities, as well as proposals from the Villages of Fayetteville and Manlius for green infrastructure (GI) and I/I removal projects for consideration under the County's "Save the Rain" grant program. Grant proposals were also provided to EPA for projects located in the Town of Dewitt and Village of East Syracuse but outside the MBLs service area. In 2012, grants for GI projects in the amounts of \$360,000 and \$3,000 were awarded to Fayetteville (V) and Manlius (V), respectively. In 2014, \$200,000 was recommended

for approval under the Save the Rain grant program for sanitary manhole/joint repairs and GI projects to be implemented jointly by Fayetteville (V) and Manlius (V).

IMAs were provided and reviewed for the Village of Fayetteville, Village of Manlius and the Town of Dewitt. According to Mr. Capozza, the County has been unable to get the Town of Manlius to sign an IMA. Among other things, the IMAs require the municipalities to develop updated capital improvement plans for I/I elimination, and establish a 1:1 I/I offset credit program for new development. In addition, under 2015 IMAs, the County agreed to provide financial assistance not to exceed \$120,000 to both the Village of Fayetteville and the Village of Manlius in order for the Villages to perform I/I removal work. None of the IMAs include flow allotments to the MBLS WWTP. The County does not individually meter flow from the contributing municipalities. Municipalities are currently billed by the County for the conveyance and treatment of wastewater based on a sewer use fee that's capped at a certain rate.

During the phone interview, Mr. Capozza stated that private source I/I is a significant contributor to high wet-weather flow to the MBLS WWTP, but the County's sewer use law lacks the "teeth" needed for the County to eliminate these sources. Based on review of the County's sewer use law, Local Law No. 1, 2011, filed on January 19, 2011, many requirements – including removing unauthorized stormwater and groundwater connections to the County interceptor sewer system or any public or private sewer tributary thereto, and filing a Certification of Inspection with the County (a requirement for all existing premises constructed prior to 2000) – must be completed no later than ten (10) years from the effective date of the local law. Therefore, in general it seems that persons would be liable to the County for civil penalties under Section 19 of the local law only if they were found to be in violation of the local law after January 19, 2021. EPA noted, however, that Section 12 of the local law provides that the Commissioner of the County Department of Water Environmental Protection may recommend a public works program to be undertaken by the County to abate sources of inflow and infiltration from private residences when the Commissioner provides a written determination finding that capacity problems exist in a particular service area that can be cost effectively abated by removing sources of I/I.

According to Mr. Capozza, I/I locations are identified and prioritized based on the 2002 Sewer System Evaluation Survey (SSES) findings, by pump station run times, by opening manholes and looking for high flow, or because they are in low-lying areas prone to flood-like conditions. The County installed flow meters in the two (2) main trunk lines conveying flow to MBLS, but last metered the flow in 2013. At that time, the 48" Meadowbrook trunk line experienced more drastic spikes in flow during wet-weather compared to the 18" Fremont trunk line. Mr. Capozza indicated that the County looks at the metering data but should probably do another study.

The 2002 SSES was not available at the Facility at the time of the CEI but was reviewed by EPA subsequent to the inspection. Among other things, the 2002 SSES includes a wet-weather abatement plan, which included the conversion of the former 1 MG Aerobic Digester No. 2 to the existing 1 MG emergency storage tank (Phase 1). Phase 2 of the wet-weather abatement program, described in Part 7.2.2 of the SSES and depicted on the two-phased implementation plan on Figure 7-1 of the SSES, includes the construction of a supplemental wet-weather storage tank at the WWTP (construction scheduled for September 2004), following removal of I/I from public manhole sources owned by municipalities other than Onondaga County. The 2002 SSES

recognizes the fact that the County may be limited in its ability to enforce timely rehabilitation of public manhole inflow sources; therefore, the supplemental storage tank volume ranged between 2.4 and 4.9 MGD, based on assessment of inflow removal achieved in public manhole sources that was to be monitored and quantified in spring/summer 2004. Part 7.3 and subparts 7.3.1-7.3.3 of the SSES include I/I rehabilitation and repair projects in non-county owned areas of the collection system, characterized not as a required part of the wet-weather abatement plan, but as recommended work to be addressed by owning municipalities as funding allows. Part 7.3.4 includes recommendations relevant to long-term sewerage facility capacity and monitoring. Among other things, Part 7.3.4 recommends that the County re-evaluate maximum wet-weather flows to major County-owned sewer segments following the implementation of I/I rehabilitation programs, in order to re-assess the need for possible capacity upgrades to these sewerages.

Part VII (page 13) of the SPDES Permit required the County to submit an update on activities being undertaken as part of the 2002 SSES by January 1, 2015, as well as an implementation schedule for any proposed additional activities or modifications to the SSES on or before April 1, 2015. Based on communication between the NYSDEC and the County, the County indicated in early July 2015 that it thought its Quarterly Flow Management Reports were sufficient in fulfilling the Part VII requirements. In a letter dated July 14, 2015, the NYSDEC clarified that the quarterly reports did not fulfill the Part VII requirements and, as a courtesy, extended the due date to submit the SSES update report and implementation schedule until July 31, 2015. The County submitted an update report on July 31, 2015.

EPA reviewed the County's July 31, 2015 submittal and found that while it details noteworthy efforts made since the 2002 SSES by the County and certain municipalities to investigate and reduce I/I throughout the MBLS service area, it fails to address major components of wet-weather flow abatement plan described in the 2002 SSES. In particular, construction of a supplemental wet-weather storage tank at the WWTP is not mentioned at all. The SSES update does not address any other implemented or planned improvements at the WWTP, nor does it discuss the potential need for capacity upgrades to major County-owned sewer segments tributary to MLBS. In addition, the July 31, 2015 submittal did not include an implementation schedule for additional activities or modifications to the SSES.

Based on observations at the time of the CEI and review of materials during and after the CEI, EPA identified the following Potential Noncompliance Items and Areas of Concern:

Potential Noncompliance Items

1. To date, the County has not submitted an implementation schedule for any proposed additional activities or modifications to the 2002 SSES, in accordance with Part VII of the Permit.
2. Despite numerous repairs that have been made throughout the MBLS service area to remove I/I, the County has experienced recurring violations of its influent flow limit of 6.5 MGD (monthly average).

Areas of Concern

3. The County has not addressed significant components of the wet-weather flow abatement plan outlined in the 2002 SSES, including increasing wet-weather storage capacity at the WWTP beyond the existing 1 MG emergency storage tank.
4. Based on information currently available to EPA, the County has not evaluated the effectiveness of the I/I rehabilitation and repair work described in the July 31, 2015 SSES update report on reducing wet-weather flow, as well as the need for possible capacity upgrades to major County-owned sewer segments tributary to the MBLS WWTP.
5. As previously mentioned in this report and identified in the attached photographs, a foamy, opaque white discharge was observed from Outfall 001 at the time of the CEI. The Facility must ensure there is no increase in turbidity that causes a substantial visible contrast to natural conditions, nor residue from floating substances attributable to sewage, in accordance with the narrative water quality standards found in 6 CRR-NY 703.2.

APPENDIX A: MATERIALS SUBMITTED SUBSEQUENT TO THE CEI

- The 2002 Sanitary Sewer Evaluation Survey (SSES)
- A wastewater infrastructure map that identifies the Onondaga County treatment plant service areas
- Sampling results at outfall 001 collected the day of the CEI
- Intermunicipal agreements between Onondaga County and the Town of Dewitt, the Village of Manlius and the Village of Fayetteville
- 2013 flowmeter data and a map identifying the location of the flow meters (2) upstream of the MBLS WWTP
- Grant proposals for the removal of infiltration and inflow in the MBLS service area

APPENDIX B: DETECTABLE RESULTS FOR SAMPLING CONDUCTED ON 9/22/15:

<u>Parameter</u>	<u>Result (µg/l)</u>	<u>Method Detection Limit (µg/l)</u>	<u>Reportable Detection Limit (µg/l)</u>
Bromodichloromethane	3.7	0.2	1.0
Bromomethane	2.9	0.5	2.0
Carbon disulfide	0.6	0.3	5.0
Chloroform	13.1	0.4	1.0
Dibromochloromethane	0.6	0.2	1.0
Toluene	0.6	0.3	1.0
Surfactants (methylene blue active substances (MBAS))	0.030 (mg/l)	0.025 (mg/l)	n/a

TTHM = [Bromodichloromethane] + [Bromomethane] + [Chloroform] + [Dibromochloromethane] = 3.7 µg/l + 2.9 µg/l + 13.1 µg/l + 0.6 µg/l = 20.3 µg/l = 0.0203 mg/L

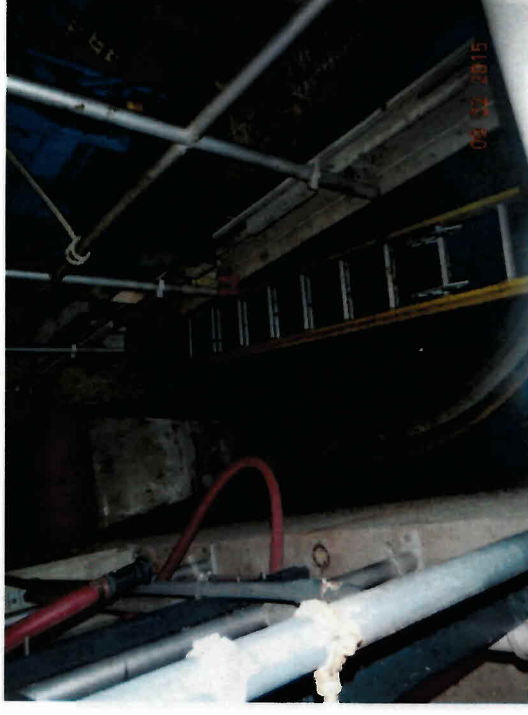
Note: The TTHM Maximum Contaminant Level (MCL) for drinking water is 0.080 mg/L. NYSDEC water quality standards for TTHMs do not exist for Class C waters.

APPENDIX C: PHOTOGRAPH LOG

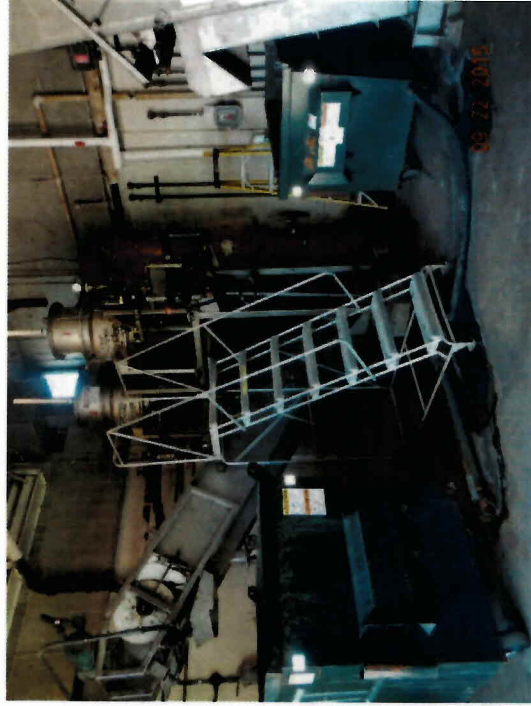
MEADOWBROOK-LIMESTONE WWTP (NY0027723) CEI: SEPTEMBER 22, 2015 UNEDITED PHOTOS TAKEN BY KATHERINE MANN, PHYSICAL SCIENTIST, DECA-WCB, USEPA REGION 2, WITH NIKON COOLPIX AW100 DIGITAL CAMERA.	
DSCN5257	Level sensor at influent wet well
DSCN5258	Grit chamber out of service
DSCN5261	Conveyor belt for grit removal to dumpster stored inside headworks building (emptied weekly)
DSCN5262	Influent insertion meter
DSCN5263	FeCl ₂ delivery bay with drain to headworks
DSCN5264	Storage building for FeCl ₂ (two (2) ~6500-gallon tanks)
DSCN5265	Gate for future wet weather storage tank
DSCN5266	Flow distribution box with aerators in background
DSCN5267	Wet weather storage tank gate at flow distribution box
DSCN5269	Weir-Wolfs installed on clarifiers in June 2014
DSCN5271	Open space next to existing clarifiers at WWTP
DSCN5273	Final effluent flow meter
DSCN5274	Foamy white discharge from Outfall 001 to Limestone Creek
DSCN5275	Close-up of foamy white discharge from Outfall 001 to Limestone Creek
DSCN5276	Close-up of foamy white discharge at Outfall 001
DSCN5278	Sign posted at Outfall 001
DSCN5279	Loading bay for sodium hypochlorite (delivered every week – week/a half)
DSCN5285	Digester and decant tank
DSCN5286	Rotary drum thickener – 6% solids removal – sludge is hauled to Metropolitan-Syracuse WWTP daily (approximately 14 truckloads per week)



DSCN5257



DSCN5258



DSCN5261

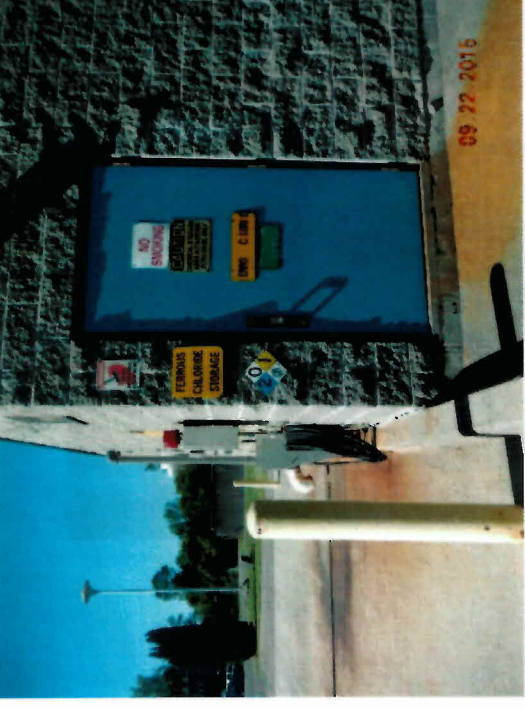


DSCN5262

Meadowbrook-Limestone WWTP (NY0027723) CEI
September 22, 2015



DSCN5263



DSCN5264



DSCN5265

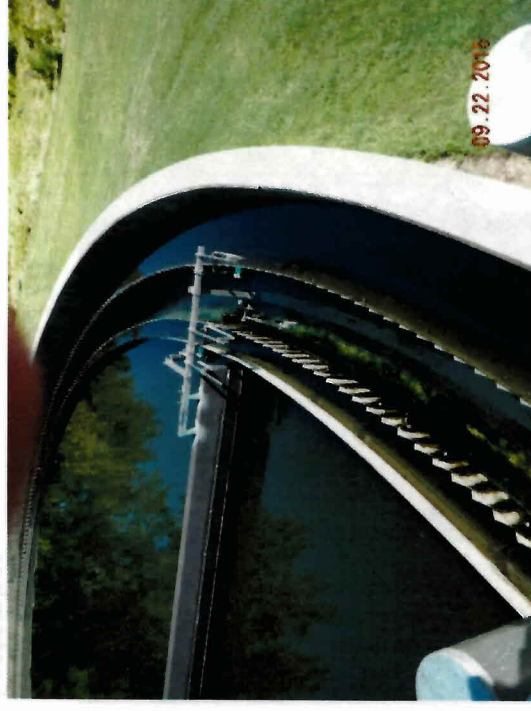


DSCN5266

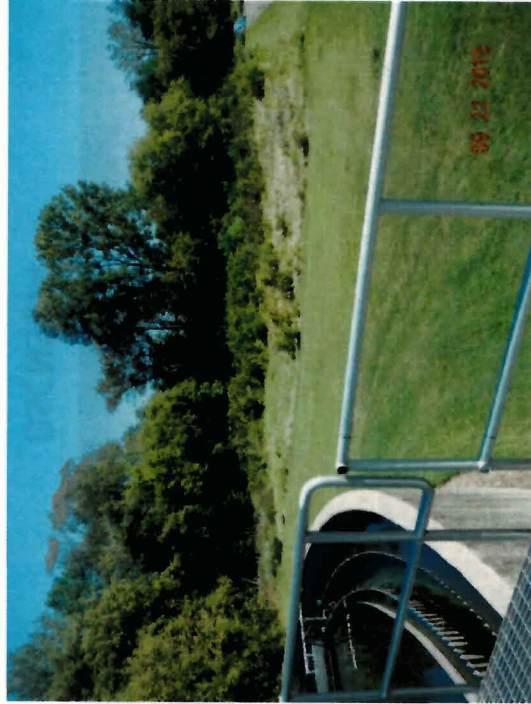
Meadowbrook-Limestone WWTP (NY0027723) CEI - September
22, 2015



DSCN5267



DSCN5269



DSCN5271



DSCN5273

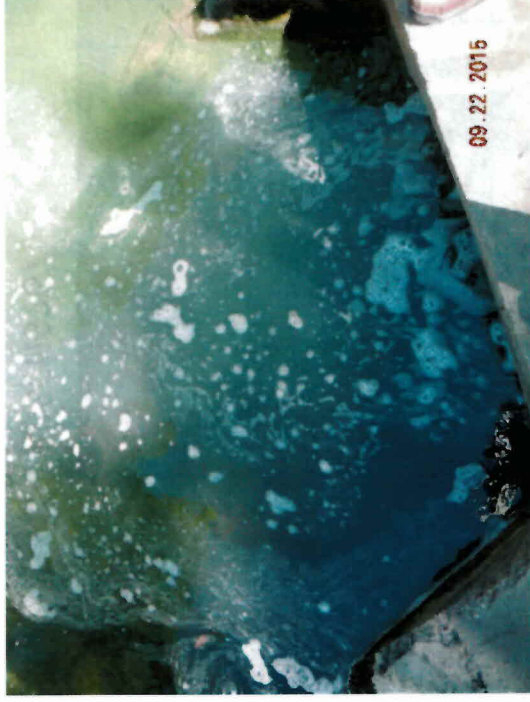
Meadowbrook-Limestone WWTP (NY0027723) CEI - September
22, 2015



DSCN5274



DSCN5275



DSCN5276



DSCN5278

Meadowbrook-Limestone WWTP (NY0027723) CEI - September
22, 2015



DSCN5279



DSCN5285



DSCN5286

Meadowbrook-Limestone WWTP (NY0027723) CEI - September
22, 2015

